AMENDMENTS TO THE CLAIMS

Claims 1, 17, and 20 have been amended and new claims 23 and 24 have been

added. The following is a complete listing of the claims, which replaces all previous

versions and listings of the claims.

1.   (currently amended) A transceiver unit for use with a wireless

communications system, the transceiver unit comprising:

an antenna configured to receive a wireless transmission; and

a communication interface, coupled to the antenna, and configured to facilitate

communication between the transceiver and an access network unit over

an undedicated public network, wherein the communication between the

transceiver and the access network unit is independent of a dedicated

connection.

2.   (original) The transceiver unit, as set forth in claim 1, wherein the

communication interface comprises at least one protocol layer.

3.   (original) The transceiver unit, as set forth in claim 2, wherein the at least

one protocol layer maintains an IP address of the access network unit.

4.   (original) The transceiver unit, as set forth in claim 2, wherein the at least

one protocol layer converts information received from the access network unit over the

public network to RF signals to be communicated by the transceiver unit over an air interface.

5.   (original) The transceiver unit, as set forth in claim 2, wherein the at least one protocol layer converts RF signals received by the transceiver unit over an air interface to information suitable for transmission over the public network to the access network controller.

6.   (original) The transceiver unit, as set forth in claim 2, wherein the at least one protocol layer provides security information to the access network unit to facilitate secure communication over the public network.

7.   (original) The transceiver unit, as set forth in claim 2, wherein the at least one protocol layer negotiates quality of service for communications with the access network unit over the public network.

8.   (original) The transceiver unit, as set forth in claim 2, wherein the at least one protocol layer encapsulates higher layer protocol information to facilitate protocol requirements of the public network.

9.   (original) The transceiver unit, as set forth in claim 2, wherein the at least one protocol layer comprises at least on technology dependent protocol layer.

10.   (original) The transceiver unit, as set forth in claim 1, wherein the public network comprises the internet.

11.   (original) The transceiver unit, as set forth in claim 1, comprising at least one antenna to facilitate communications between the transceiver unit and at least one portable communications device over an air interface.

12.   (original) The transceiver unit, as set forth in claim 11, comprising a structure on which the at least one antenna resides.

13.   (original) The transceiver unit, as set forth in claim 12, wherein the structure comprises a tower.

14.   (original) The transceiver unit, as set forth in claim 12, wherein the structure comprises a building.

15.   (original) The transceiver unit, as set forth in claim 1, comprising a structure for housing the communication interface.

16.   (original) The transceiver unit, as set forth in claim 15, wherein the structure comprises a cabinet.

17.   (currently amended) A tangible medium having a software program for use

in a wireless communications system, the software program comprising:

at least one routine for facilitating communication of information over an

undedicated public network between at least one ~~transceiver unit~~ base

station, which is adapted to communicate over an air interface with

portable communications devices, and ~~an access network unit~~ a controller,

which is adapted to process information communicated with the at least

one ~~transceiver unit~~ base station, wherein the controller is located between

the base station and a mobile switching center.

18.   (original) The tangible medium, as set forth in claim 17, wherein the at

least one routine facilitates communication information over the internet.

19.   (original) The tangible medium, as set forth in claim 17, wherein the at

least one routine comprises at least one protocol layer adapted to facilitate

communication over the public network.

20.   (original) A method of producing an information packet in a wireless

communications system, the method comprising the acts of:

receiving information from ~~by~~ a transceiver unit via an air interface; ~~and~~

processing the information to form an information packet suitable for

transmission to an access network unit via an undedicated public network;

and

transmitting the information packet to a controller independent of a dedicated

connection.

21.   (original) The method, as set forth in claim 20, wherein the public network

comprises the internet.

22.   (previously presented) The transceiver unit, as set forth in claim 1, wherein

the transceiver is assigned an IP address to facilitate communications with the access

network unit over the undedicated public network.

23.   (new) The transceiver unit, as set forth in claim 1, wherein the access

network unit comprises a base station controller.

24.   (new) The method, as set forth in claim 20, wherein transmitting the

information packet to the controller comprises transmitting the information packet to a

base station controller.